

a diplexer coupled to the antenna connection;
a transmit section connected to a first port of the diplexer;
a receive section connected to a second port of the diplexer; and
wherein the diplexer includes first and second notch filters, each of the notch filters comprising a main transmission line, a first coupling mechanism, and a first electrically tunable resonator coupled to the main transmission line through the first coupling mechanism.

2. (Original) A wireless telephone handset according to claim 1, wherein each of the first electrically tunable resonators includes a first tunable dielectric varactor or a first microelectromechanical variable capacitor.

3. (Original) A wireless telephone handset according to claim 2, wherein the first tunable varactor comprises:

a substrate having a first dielectric constant and having a generally planar surface;
a tunable dielectric layer positioned on the generally planar surface of the substrate, the tunable dielectric layer having a second dielectric constant greater than said first dielectric constant; and

first and second electrodes positioned on a surface of the tunable dielectric layer opposite the generally planar surface of the substrate, said first and second electrodes being separated to form a gap therebetween.

4. (Original) A wireless telephone handset according to claim 1, wherein the first coupling mechanism comprises one of:

a first capacitive probe, a first inductive loop, a first iris window, a first evanescent waveguide piece, a first slot, and a first hole.

5. (Original) A wireless telephone handset according to claim 1, wherein